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NOTICE OF ALLOWANCE AND FEE(S) DUE

24498 7590 12/29/2010 Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312

Princeton, NJ 08543-5312

EXAMINER

AHMED, ENAM

ART UNIT PAPER NUMBER

2112

DATE MAILED: 12/29/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/511.638	10/18/2004	Jill MacDonald Bovce	PU020126	6343	

TITLE OF INVENTION: SYNCHRONIZATION LOSS RESILIENT DIGITAL COMMUNICATION SYSTEM USING FORWARD ERASURE CORRECTION

ond.c.no.

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/29/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notificat	correspondence includir ed below or directed oth	or transi ig the Pa ierwise i	mitting the ISSU atent, advance or in Block 1, by (a	ders and publication of specifying a new corre	maintenance fees v spondence address	vill be and/or	mailed to the current (b) indicating a sepa	correspor	completed where idence address as E ADDRESS" for
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Princeton, NJ 08	545-5312								(Depositor's name)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR	R	ATTO	RNEY DOCKET NO.	CONFI	RMATION NO.
10/511,638 TITLE OF INVENTIO CORRECTION	10/18/2004 N: SYNCHRONIZAT	ION LO	OSS RESILIENT	Jill MacDonald Boyce T DIGITAL COMMUN	ICATION SYSTE	M US	PU020126 ING FORWARD E	RASURE	6343
APPLN. TYPE	SMALL ENTITY	ISS	UE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	-	DATE DUE
nonprovisional	NO		\$1510	\$300	\$0		\$1810		03/29/2011
EXAM	INER	А	ART UNIT	CLASS-SUBCLASS	1				
AHMED			2112	714-775000	-				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Comp	nge of C Indication Use	orrespondence ion form of a Customer	2. For printing on the (I) the names of up to or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or ty data will appear on the I a substitute for filing an (B) RESIDENCE: (CIT!	po 3 registered pater wely, le firm (having as a agent) and the nam orneys or agents. If printed.	memb es of u no nan	er a 2p to p to e is 3	ocument l	nas been filed for
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	s SMALL ENTITY state	is. See 3'	7 CFR 1.27.	b. Applicant is no los					
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) wi tes Pater	ill not be accepted at and Trademark	from anyone other than Office.	the applicant; a regi	stered	attorney or agent; or th	ne assigne	e or other party in
Authorized Signature					Date				
Typed or printed name					Registration N	lo			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.31 U.S.C. I USPTO rden, sho NOT S	The informatic 122 and 37 CFR Time will vary suld be sent to the END FEES OR C	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by t etimated to take 12 t vidual case. Any co er, U.S. Patent and O THIS ADDRESS	he pub minuter mment Trader S. SEN	lic which is to file (and to complete, including s on the amount of the lark Office, U.S. Dep D TO: Commissioner	I by the U ig gatheria me you re artment of for Patent	SPTO to process) ig, preparing, and quire to complete Commerce, P.O. s, P.O. Box 1450,

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24498	7590 12/29/2010		EXAM	UNER	
Robert D. Shedo	l, Patent Operations		AHMEE	, ENAM	
THOMSON Licer	nsing LLC		ART UNIT	PAPER NUMBER	
P.O. Box 5312 Princeton, NJ 085	43-5312		2112 DATE MAILED: 12/29/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 876 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 876 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/511,638	BOYCE, JILL MACDONALD	
Examiner	Art Unit	
ENAM AHMED	2112	

The MAILING DATE of this continuincation appears on the cover sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
1. X This communication is responsive to 8/20/10,
1. 23 This continuation is responsive to ozovite.
2. X The allowed claim(s) is/are 1-3.5-9.11-14 and 16-20.
2. 23 The allerted stating is at a 1-state of 1. 1. 1 and 1. 2. 2.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
_
a) ☐ All b) ☐ Some* c) ☐ None of the:

The MANIEUR DATE of this communication annexes on the course best with the communication and discount

2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the

International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

1. T Certified copies of the priority documents have been received.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4.	☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF
	INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.	CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) Thereto or 2) to Paper No./Mail Date

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s) 1. Notice of References Cited (PTO-892)

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

3. Information Disclosure Statements (PTO/SB/08),

Paper No./Mail Date 12/21/10 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. Notice of Informal Patent Application

Interview Summary (PTO-413). Paper No./Mail Date

7. Examiner's Amendment/Comment Examiner's Statement of Reasons for Allowance

9.

☐ Other

/Enam Ahmed/ Examiner, Art Unit 2112

U.S. Patent and Trademark Office

Application/Control Number: 10/511,638

Art Unit: 2112

Examiner Amendment

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claims

(Currently Amended) An apparatus for enabling recovery of missing information in a digital communication system, comprising:

a Forward Erasure Correction (FXC) encoder for computing FXC parity superpackets across information superpackets for subsequent recovery of any entire ones of the information superpackets that have been at least partially compromised due to synchronization loss; and

a multiplexer for multiplexing the information superpackets and the FXC parity [superpackes] <u>superpackets</u> prior to any transmission thereof.

Reasons for allowance

Claims 1-3, 5-9, 11-14 and 16-20 are allowed.

The following is a reasons for allowance:

Application/Control Number: 10/511,638

Art Unit: 2112

The prior art fails to disclose or suggest features in the claimed invention.

It has been determined after careful review of the claims that the prior art does not teach: a Forward Erasure Correction (FXC) encoder for computing FXC parity superpackets across information superpackets for subsequent recovery of any entire ones of the information superpackets that have been at least partially compromised due to synchronization loss.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Enam Ahmed whose telephone number is 571-270-1729. The examiner can normally be reached on Mon-Fri from 8:30 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman, can be reached on 571-272-3644.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status Application/Control Number: 10/511,638 Page 4

Art Unit: 2112

information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

EA

12/14/10

/Scott T Baderman/

Supervisory Patent Examiner, Art Unit 2114